



CLAIMS

Having fully described my invention I claim:

1. (Currently amended) A Computer Program Operation Interface containing:

a molded plastic base with a generally oval shaped horizontal base platform intended to interface with a desk top work surface,
said base having a vertical tab rising up from one end of the horizontal base platform at a 90 degree angle,
said base having a vertical pillar rising up from the horizontal base platform at a 90 degree angle and located approximately in the center of the horizontal base platform having a threaded hole in the top of the pillar,
said base having an orifice in in the horizontal base platform and in the vertical tab configured to receive an industry standard X-Y Rollerball sensor with its appurtenances,
said base containing a vertical apron around the perimeter over which the covering shell rests and into which is molded four receptors on each of the long sides of the apron configured to receive four industry standard on/off microswitches located directly under the finger pads molded into the covering shell, and
said base having a U shaped slot in the base apron at the end opposite the vertical tab through which the serial patch cord exits the base.

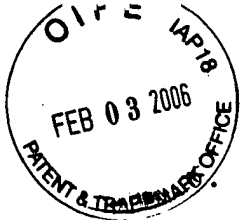
2. (Currently Amended) A Computer Program Operation Interface comprising:

A molded plastic covering shell which fits over the vertical tab and shortwall and onto the stepledge around the perimeter of the base and is anchored in place by a single assembling screw,
said covering shell to have four finger pads molded into one side or the other to activate the industry standard on/off microswitches in the appropriate side of the base platform being hinged at the top,



said covering shell to have a U shaped slot in the end opposite the vertical tab to allow exit of the serial patch cord from the base,

3. (Currently amended) A Computer Program Operation Interface according to claim one containing six switch activators: one said activator being an X-Y rollerball sensor located in the orifice provided in the vertical tab to be operated by the thumb and to operate for example the horizontal and vertical scroll feature of the program, another said actuator being an X-Y rollerball sensor located in the orifice provided in the horizontal base platform to be operated by the moving of the wrist and to operate for example the positioning of the cursor, and four industry standard on/off microswitches installed in the receptors molded into the sides of the shortwall and located directly under the finger pads molded into the appropriate side of the covering shell and activated by pressure from the fingers, and all six of these switch actuators wired into an industry standard wiring harness and serial patch cord.
4. (Currently Amended) A Computer Program Operation Interface accompanied by a driver program and operational software that is programable and written in the python language to allow the operation of each actuator switch to be programmed specifically to the needs of the user and to make the device compiaible with all hardware and software programs.
5. (Currently Amended) A Computer Program Operation Interface according to claim 2 comprising:
a shape to be precisely determined by consulting with anatomical experts familiar with cause and prevention of carpal tunnel syndrome,
said shape to be generally egg-shaped to fit comfortable into the palm cavity of a relaxed hand in the natural position,
said shape to provide support for the entire surface of the inside of the palm and fingers, and
said shape to have a textured surface to provide ventilation for the palm and a sure grip on the device by the user.



(Currently Amended) A Computer Program Operation Interface which allows the full and optimum function of the hand of the operator with:

the thumb operating the X-Y rollerball sensor located in the vertical tab actuating for example the horizontal and vertical scroll function of the program,

the lateral movement of the wrist actuating the X-Y rollerball sensor located in the horizontal base platform actuating for example the cursor location function of the program, and

each of the four fingers operating one of the four individual finger pads molded in the side of the covering shell and activating one of the four on/off microswitches located under the finger pads performing a specified program operation thus allowing all six switches to be manipulated independently and simultaneously insuring optimum use of the operator's hand.

7. (Currently Amended) A Computer Program Operation Interface having two X-Y rollerball sensors and four on/off microswitches strategically located to allow all six switches to be manipulated independently and simultaneously by the thumb, four fingers, and a slight lateral movement of the wrist providing optimum input capability to better meet the needs of ever more complex computer programs and games.
8. (Currently Amended) A Computer Program Operation Interface comprising a molded plastic covering shell of claim 2 which is generally egg-shaped fitting into and completely filling the palm cavity of a relaxed hand in the natural position completely supporting the inside surface of the palm and fingers eliminating the need for the operator to extend his fingers into an unnatural position completely eliminating unnatural stress on the muscles and tendons of the hand and forearm.